

## EAST Search History

| Ref # | Hits    | Search Query  | DBs                             | Default Operator | Plurals | Time Stamp       |
|-------|---------|---|---------------------------------|------------------|---------|------------------|
| S1    | 1       | ("20040223425").PN.   | US-PGPUB;<br>USPAT              | OR               | OFF     | 2007/02/09 09:09 |
| S2    | 246     | (369/53.23).CCLS.   | US-PGPUB;<br>USPAT              | OR               | OFF     | 2007/01/26 13:49 |
| S3    | 545063  | ((optical compact) near2 (disk\$2 disc\$2 medium)) CD DvD CDROM DvDROM "CD-ROM" "DvD-ROM" (digital near2 (versatile video) near2 (disk disc)) | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/01/26 13:49 |
| S4    | 124338  | (tracking near3 error near3 signal\$3) TES TE   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/01/26 13:50 |
| S5    | 89506   | object\$3 near2 lens  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/01/26 13:50 |
| S6    | 6593393 | control\$3 adjust\$4 manipul\$4 guid\$6   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/01/26 13:53 |
| S7    | 290196  | polarit\$3  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/01/26 13:53 |
| S8    | 2471    | S3 and (S5 same S6 same S4)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/01/26 14:03 |
| S9    | 54      | S2 and (S5 same S6 same S4)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/01/26 14:04 |
| S10   | 578     | S3 and (S5 same S6 same S4) and S7  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/01/26 14:03 |
| S11   | 14      | S2 and (S5 same S6 same S4) and S7  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/01/26 14:30 |
| S12   | 246     | (369/53.23).CCLS.   | US-PGPUB;<br>USPAT              | OR               | OFF     | 2007/01/29 15:31 |
| S13   | 124377  | (tracking near3 error near3 signal\$3) TES TE   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/01/29 15:31 |
| S14   | 89603   | object\$3 near2 lens  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/01/29 15:31 |
| S15   | 6603006 | control\$3 adjust\$4 manipul\$4 guid\$6   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/01/29 15:31 |

## EAST Search History

|     |         |   |                                 |    |     |                  |
|-----|---------|---|---------------------------------|----|-----|------------------|
| S16 | 290291  | polarit\$3  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/01/29 15:31 |
| S17 | 14      | S12 and (S14 same S15 same S13)<br>and S16  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/01/29 16:30 |
| S18 | 434320  | ((disc disk medium) near2 (type<br>kind catagory)) discriminat\$4   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/01/29 16:32 |
| S19 | 11907   | ((disc disk medium) near2 (type<br>kind catagory)) same (discriminat\$4<br>determin\$3)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/01/29 16:32 |
| S20 | 10      | S17 and S18   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/01/31 08:07 |
| S21 | 3       | S17 and S19   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/01/29 16:32 |
| S22 | 1       | ("6275466").PN.   | US-PGPUB;<br>USPAT              | OR | OFF | 2007/01/31 08:08 |
| S23 | 124463  | (tracking near3 error near3<br>signal\$3) TES TE  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/01/31 08:21 |
| S24 | 546047  | ((optical compact) near2 (disk\$2<br>disc\$2 medium)) CD DvD CDROM<br>DvDROM "CD-ROM" "DvD-ROM"<br>(digital near2 (versatile video) near2<br>(disk disc)) | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/01/31 08:12 |
| S25 | 6606067 | control\$3 adjust\$4 manipul\$4<br>guid\$6  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/01/31 08:43 |
| S26 | 89665   | object\$3 near2 lens  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/01/31 08:12 |
| S27 | 11920   | ((disc disk medium) near2 (type<br>kind catagory)) same (discriminat\$4<br>determin\$3)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/01/31 08:13 |
| S28 | 257344  | (polarit\$3 signal) near6 (revers\$3<br>invert\$3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/01/31 08:14 |
| S29 | 128530  | (tracking near3 error near3<br>signal\$3) TES TE (push near2 pull<br>near5 signal)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/01/31 08:22 |
| S30 | 473     | wavelength same (half halved)<br>same S29   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/01/31 08:41 |

## EAST Search History

|     |         |  |                                 |    |    |                  |
|-----|---------|--|---------------------------------|----|----|------------------|
| S31 | 122     | ((on near2 track) on-track) near5 determin\$6                                | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/01/31 08:42 |
| S32 | 10      | S24 and (S29 same S28) and (S25 same S26) and S30                            | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/01/31 08:47 |
| S33 | 6261835 | control\$3 adjust\$4 manipul\$4 shift\$3                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/01/31 08:48 |
| S34 | 122     | ((on near2 track) on-track) near5 determin\$6                                | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/01/31 08:50 |
| S35 | 128530  | (tracking near3 error near3 signal\$3) TES TE (push near2 pull near5 signal) | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/01/31 08:51 |
| S36 | 42      | S33 same S34   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/01/31 08:52 |
| S37 | 16      | S33 near10 S34   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/01/31 08:52 |
| S38 | 2       | (S33 near10 S34) same S35  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/01/31 08:52 |
| S40 | 7       | S33 same S34 same S35  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/01/31 13:03 |
| S41 | 3568596 | read\$4 reproduc\$4  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/01/31 13:04 |
| S42 | 128530  | (tracking near3 error near3 signal\$3) TES TE (push near2 pull near5 signal) | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/01/31 13:05 |
| S43 | 290487  | polarit\$3   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/01/31 13:07 |
| S44 | 78964   | guid\$3 near2 groove   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/01/31 13:18 |
| S45 | 329     | S44 same S41 same S42  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/01/31 13:19 |
| S46 | 116     | S45 and S43  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/01/31 13:20 |

## EAST Search History

|     |        |   |                                 |    |     |                  |
|-----|--------|---|---------------------------------|----|-----|------------------|
| S47 | 17     | S45 same S43  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/01/31 13:20 |
| S48 | 17132  | determin\$6 near5 (readable<br>reproducible ((able ability) near5<br>(read\$4 reproduc\$4)))  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/02/09 09:11 |
| S49 | 124804 | (tracking near3 error near3<br>signal\$3) TES TE  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/02/09 09:26 |
| S51 | 246    | (369/53.23).CCLS.   | US-PGPUB;<br>USPAT              | OR | OFF | 2007/02/09 09:12 |
| S52 | 8      | S48 and S49 and S51   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/02/09 09:26 |
| S53 | 543293 | lens\$2   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/02/09 09:26 |
| S56 | 128884 | (tracking near3 error near3<br>signal\$3) TES TE (push near2 pull<br>near5 signal)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/02/09 09:28 |
| S57 | 352460 | (revers\$3 near5 polarity) inverse\$2   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/02/09 09:29 |
| S58 | 0      | S51 and (S56 same S57 same S53)<br>and S48  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/02/09 09:29 |
| S59 | 1      | (S56 same S57 same S53) and S48   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/02/09 11:09 |
| S60 | 44550  | ("369").CLAS.   | US-PGPUB;<br>USPAT              | OR | OFF | 2007/02/09 11:09 |
| S61 | 23     | S60 and (((revers\$3 switch\$3<br>chang\$3 inver\$5) near4 (te tes<br>(track\$3 near3 (error signal))) near3<br>polarity) same ((disk disc) near3<br>(type kind discriminat\$3))) | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/02/09 11:12 |
| S62 | 46237  | ("369").CLAS.   | US-PGPUB;<br>USPAT              | OR | OFF | 2007/08/03 17:56 |
| S63 | 23     | S62 and (((revers\$3 switch\$3<br>chang\$3 inver\$5) near4 (te tes<br>(track\$3 near3 (error signal))) near3<br>polarity) same ((disk disc) near3<br>(type kind discriminat\$3))) | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/08/03 17:56 |
| S64 | 18858  | determin\$6 near5 (readable<br>reproducible ((able ability) near5<br>(read\$4 reproduc\$4)))  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/08/03 17:56 |

## EAST Search History

|     |         |  |                                 |    |     |                  |
|-----|---------|--|---------------------------------|----|-----|------------------|
| S65 | 130839  | (tracking near3 error near3 signal\$3) TES TE                  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/08/03 17:56 |
| S66 | 263     | (369/53.23).CCLS.  | US-PGPUB;<br>USPAT              | OR | OFF | 2007/08/03 17:56 |
| S67 | 9       | S64 and S65 and S66  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/08/03 17:56 |
| S68 | 263     | (369/53.23).CCLS.  | US-PGPUB;<br>USPAT              | OR | OFF | 2007/08/03 17:56 |
| S69 | 130839  | (tracking near3 error near3 signal\$3) TES TE                  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/08/03 17:56 |
| S70 | 93663   | object\$3 near2 lens   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/08/03 17:56 |
| S71 | 6869022 | control\$3 adjust\$4 manipulats\$4 guid\$6                     | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/08/03 17:56 |
| S72 | 302783  | polarit\$3   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/08/03 17:56 |
| S73 | 15      | S68 and (S70 same S71 same S69) and S72                        | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/08/03 17:56 |
| S74 | 455171  | ((disc disk medium) near2 (type kind catagory)) discriminat\$4 | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/08/03 17:56 |
| S75 | 10      | S73 and S74  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/08/03 17:56 |
| S76 | 263     | (369/53.23).CCLS.  | US-PGPUB;<br>USPAT              | OR | OFF | 2007/08/03 17:56 |
| S77 | 130839  | (tracking near3 error near3 signal\$3) TES TE                  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/08/03 17:56 |
| S78 | 93663   | object\$3 near2 lens   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/08/03 17:56 |
| S79 | 6869022 | control\$3 adjust\$4 manipulats\$4 guid\$6                     | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/08/03 17:56 |
| S80 | 302783  | polarit\$3   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON  | 2007/08/03 17:56 |

## EAST Search History

|     |    |   |                                 |    |    |                  |
|-----|----|---|---------------------------------|----|----|------------------|
| S81 | 15 | S76 and (S78 same S79 same S77) and S80 | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/08/03 17:56 |
| S82 | 9  | S64 and S65 and S66                     | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/08/03 17:56 |